

Technical Data Sheet

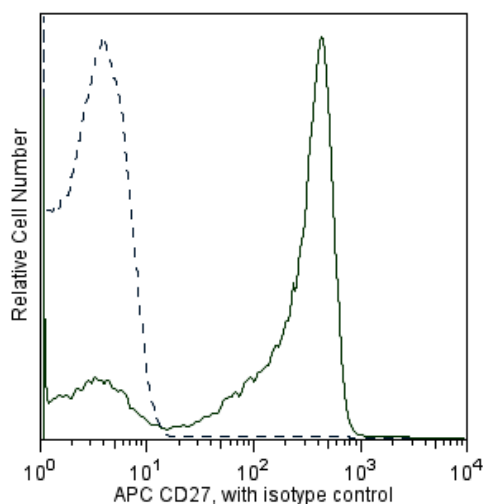
APC Mouse Anti-Human CD27

Product Information

Material Number:	561786
Alternate Name:	TNFRSF7; TNF receptor superfamily, member 7; T14; Tp55; S152
Size:	25 tests
Vol. per Test:	20 µl
Clone:	M-T271
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Tested: Human
Workshop:	V 5T CD27.03
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The M-T271 monoclonal antibody specifically reacts with CD27. CD27 presents as a type I transmembrane, disulphide-linked 110 kDa homodimer comprised of two polypeptide chains. The CD27 molecule is a lymphocyte-specific member of the TNF/NGF-R family, and is expressed on a subset of human thymocytes and on the majority of mature T lymphocytes, activated B cells and NK cells. CD27 is highly induced on T cells after TCR stimulation. CD27 binds to CD70 (also known as, CD27 ligand or CD27L) and may be involved in cellular interaction of T and B lymphocytes.



Flow cytometric analysis of anti-human CD27 on human whole blood lymphocytes. Human lymphocytes were stained with APC-anti human CD27 (solid line, Cat. No. 558664) or APC mouse IgG1 isotype control (dashed line, Cat. No. 555751/554681). Erythrocytes were lysed using BD Pharm Lyse™ lysis buffer (Cat. No. 555899). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554681	APC Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21
555751	APC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
7. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
8. An isotype control should be used at the same concentration as the antibody of interest.

References

- Bigler RD, Bushkin Y, Chiorazzi N. S152 (CD27). A modulating disulfide-linked T cell activation antigen. *J Immunol.* 1988; 141(1):21-28. (Biology)
- Bigler RD, Donat TL, Boselli CM. Definition of three epitopes of the CD27 molecule [P 120->55] present on activated normal lymphocytes. In: Knapp W, Dorken B, Rieber EP, et al, ed. *Leukocyte Typing IV: White Cell Differentiation Antigens*. New York: Oxford University Press; 1989:351-352. (Clone-specific)
- Schlossman S, Boumell L, et al, ed. *Leukocyte Typing V*. New York: Oxford University Press; 1995. (Biology)
- Watts TH. TNF/TNFR family members in costimulation of T cell responses. *Annu Rev Immunol.* 2005; 23:23-68. (Biology)